

CLAIMS

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1. A piezo-oscillator comprising an oscillator circuit including a piezo-vibrator and an amplifier circuit, and a constant-voltage circuit, in which a power source and said oscillator circuit are connected through said constant-voltage circuit to supply a constant voltage to said oscillator circuit, wherein when a voltage of said power source is equal to or higher than a predetermined value, a function of said constant-voltage circuit is invalidated.

2. A piezo-oscillator comprising a piezo-oscillator including a piezo-vibrator, an amplifier circuit and a constant-current circuit, wherein when a voltage of said power source is equal to or higher than a predetermined value, a function of said constant-current circuit is invalidated.

3. A piezo-oscillator comprising an oscillator circuit including a piezo-vibrator and an amplifier circuit, a constant-voltage circuit and frequency control voltage section, in which a power source and said oscillator circuit are connected through said constant-voltage circuit to supply a constant voltage to said oscillator circuit, wherein when a voltage to be supplied to said frequency control voltage section is equal to or higher than a predetermined value, a function of said constant-voltage circuit is invalidated.

4. A piezo-oscillator comprising a piezo-oscillator including a piezo-vibrator, an amplifier circuit, a constant-current circuit and a frequency control voltage section, wherein when a voltage to be supplied to said frequency

control voltage section is equal to or higher than a predetermined value, a function of said constant-current circuit is invalidated.

5. A piezo-oscillator according to claim 1 or 3, wherein within in a voltage range in which said function of said constant-voltage circuit is invalidated, said power source voltage is controlled, and a drive level of said piezo-vibrator is controlled by changing a voltage to be supplied to said amplifier circuit.

6. A piezo-oscillator according to claim 2 or 4, wherein within in a voltage range in which said function of said constant-voltage circuit is invalidated, said power source voltage is controlled, and a drive level of said piezo-vibrator is controlled by changing a voltage to be supplied to said amplifier circuit.

7. A piezo-oscillator according to claim 5 or 6, wherein ~~it is possible to confirm~~ drive level dependency characteristics <sup>are confirmed</sup> of said piezo-vibrator by controlling a drive level of said piezo-vibrator.

8. A piezo-oscillator comprising an oscillator circuit including a piezo-vibrator and an amplifier circuit for supplying electric power to said oscillator circuit through a constant-voltage circuit or a constant-current circuit, wherein said constant-voltage circuit or said constant-current circuit is provided with a current bypass switch, a function of said constant-voltage circuit or said constant-current circuit is invalidated by controlling said switch from outside.